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1. 20060088906. 15 Jul 05. 27 Apr 06. Erythropoietin: remodeling and glycoconjugation of erythropoietin. DeFrees; Shawn, et al. 435/68.1; 530/395 C07K14/505 20060101 C12P21/06 20060101

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US 20020068347A1

(19) **United States**(12) **Patent Application Publication** (10) **Pub. No.: US 2002/0068347 A1****Taylor et al.**(43) **Pub. Date: Jun. 6, 2002**(54) **NUCLEIC ACIDS ENCODING ALPHA-1,3
FUCOSYLTRANSFERASES AND
EXPRESSION SYSTEMS FOR MAKING AND
EXPRESSING THEM**(75) **Inventors: Diane E. Taylor, Edmonton (CA);
Zhongming Ge, Edmonton (CA)****Correspondence Address:
GREGORY P. EINHORN
Fish & Richardson P.C.
Suite 500
4350 La Jolla Village Drive
San Diego, CA 92122 (US)**(73) **Assignee: The Governors of the University of
Alberta, a Canada corporation**(21) **Appl. No.: 09/733,524**(22) **Filed: Dec. 7, 2000****Related U.S. Application Data**(62) **Division of application No. 09/092,315, filed on Jun.
5, 1998.****Publication Classification**(51) **Int. Cl.⁷** C12N 9/10; C12Q 1/68;
G01N 33/543; C07H 21/04;
C12P 21/02
(52) **U.S. Cl.** 435/193; 435/6; 435/7.92;
435/325; 435/69.1; 536/23.2;
530/389.1(57) **ABSTRACT**

A bacterial α 1,3-fucosyltransferase gene and deduced amino acid sequence is provided. The gene is useful for preparing α 1,3-fucosyltransferase polypeptide, and active fragment thereof, which can be used in the production of oligosaccharides such as Lewis X, Lewis Y, and sialyl Lewis X, which are structurally similar to certain tumor-associated carbohydrate antigens found in mammals. These product glycoconjugates also have research and diagnostic utility in the development of assays to detect mammalian tumors. In addition the polypeptide of the invention can be used to develop diagnostic and research assays to determine the presence of *H. pylori* in human specimens.

-continued

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What is claimed is:

1. A substantially purified transmembrane segment-free α 1,3-fucosyltransferase polypeptide.

2. The substantially purified transmembrane segment-free α 1,3-fucosyltransferase of claim 1, wherein the polypeptide catalyzes the synthesis of Gal β 1-4[Fuc α 1-3] GlcNAc (Lewis X) or NeuAc α 2-3-Gal β 1-4[Fuc α 1-3]GlcNAc (sialyl Lewis X).

3. The polypeptide of claim 1, wherein the polypeptide lacks α 1,4-fucosyltransferase activity.

4. The polypeptide of claim 1, wherein the polypeptide lacks α 1,2-fucosyltransferase activity.

5. The polypeptide of claim 1, wherein the polypeptide lacks α 1,4-fucosyltransferase and α 1,2-fucosyltransferase activity.

6. The polypeptide of claim 1, wherein the polypeptide has an amino acid sequence selected from the group consisting of SEQ ID NO: 1, SEQ ID NO: 2 and SEQ ID NO: 3.

7. An isolated polynucleotide encoding the polypeptide of claim 1.

8. The polynucleotide of claim 7, wherein the sequence encodes the amino acid sequence selected from the group SEQ ID NO: 1, SEQ ID NO: 2 and SEQ ID NO: 3.

9. A substantially purified transmembrane segment-free α 1,3-fucosyltransferase comprising a polypeptide having at least one repeat of the sequence comprising $X_1X_2LRX_3X_4Y$, wherein X_1 is D or N; X_2 is D or N; X_3 is I, V or A; X_4 is N or D.

10. A polynucleotide selected from the group consisting of:

a) SEQ ID NO: 4;

b) SEQ ID NO: 4, wherein T is U;

c) nucleic acid sequences complementary to a) or b); and

d) fragments of a), b), or c) that are at least 15 nucleotide bases in length and that hybridize to DNA which encodes any one of the polypeptide set forth in SEQ ID NO: 1, SEQ ID NO: 2 and SEQ ID NO: 3.

11. A vector containing the polynucleotide of claim 7.

12. A host cell containing the vector of claim 11.

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Search Results - Record(s) 1 through 17 of 17 returned.

-
- ☐ 1. [20050164338](#). 22 Jan 04. 28 Jul 05. H. pylori [fucosyltransferases](#). Simala-Grant, Joanne, et al. 435/68.1; 435/193 435/320.1 435/325 530/395 C12P021/06 C12N009/10.
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 Oct 2000

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 Publication Year: 2003
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2/9/1 (Item 1 from file: 155)
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 12869845 PMID: 10998067
Synthesis of mono- and di-fucosylated type I Lewis blood group antigens
by Helicobacter pylori.
 Rasko D A; Wang G; Monteiro M A; Palcic M M; Taylor D E

Department of Medical Microbiology and Immunology, University of Alberta,
Edmonton, Alberta, Canada. drask001@umaryland.edu

European journal of biochemistry / FEBS (GERMANY) Oct 2000, 267 (19)
p6059-66, ISSN 0014-2956--Print Journal Code: 0107600

Publishing Model Print

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

Subfile: INDEX MEDICUS

The identification of *Helicobacter pylori* isolates that expresses exclusively type I Lewis antigens is necessary to determine the biosynthetic pathway of these antigens. Fast-atom bombardment MS provides evidence that the *H. pylori* isolate UA1111 expresses predominantly Leb, with H type I and Lea in lesser amounts. Cloning and expression of the *H. pylori* fucosyltransferases (FucTs) allow comparisons with previously identified *H. pylori* enzymes and determination of the enzyme specificities. Although all FucTs, one alpha(1,2) FucT and two alpha(1,3/4) FucTs, appear to be functional in this isolate, their activities are lower and enzyme specificities are different to other *H. pylori* FucTs previously characterized. Studies of the cloned enzyme activities and mutational analysis indicate that Lea acts as the substrate for the synthesis of Leb. This is different from the human Leb biosynthetic pathway, but analogous to the biosynthetic pathway utilized by *H. pylori* for the production of Ley.

Descriptors: *Antigens, Bacterial--biosynthesis--BI; *Bacterial Proteins--metabolism--ME; *Fucose--metabolism--ME; *Fucosyltransferases--metabolism--ME; **Helicobacter pylori*--enzymology--EN; *Lewis Blood-Group System--biosynthesis--BI; *Molecular Mimicry; *Oligosaccharides--biosynthesis--BI; Amino Acid Sequence; Bacterial Proteins--genetics--GE; Base Sequence; Carbohydrate Sequence; Cloning, Molecular; Comparative Study; Enzyme-Linked Immunosorbent Assay; Frameshift Mutation; Fucosyltransferases--deficiency--DF; Fucosyltransferases--genetics--GE; Gene Targeting; Glycosylation; *Helicobacter pylori*--genetics--GE; *Helicobacter pylori*--immunology--IM; Humans; Molecular Sequence Data; Research Support, Non-U.S. Gov't; Spectrometry, Mass, Fast Atom Bombardment

CAS Registry No.: 0 (Antigens, Bacterial); 0 (Bacterial Proteins); 0 (Lewis Blood-Group System); 0 (Lewis Y antigen); 0 (Oligosaccharides); 0 (galactopyranosyl-1-3-galactopyranosyl-1-3(4)-N-acetylglucosamine); 3713-31-3 (Fucose)

Enzyme No.: EC 2.4.1.- (Fucosyltransferases); EC 2.4.1.152 (galactoside 3-fucosyltransferase); EC 2.4.1.69 (galactoside 2-alpha-L-fucosyltransferase)

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DIALOG(R)File 349:PCT FULLTEXT

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01011861 **Image available**

SYSTEM AND METHODOLOGY FOR DELIVERING MEDIA TO MULTIPLE DISPARATE CLIENT DEVICES BASED ON THEIR CAPABILITIES

SYSTEME ET PROCEDE DE DISTRIBUTION DE SUPPORTS A DIVERS DISPOSITIFS CLIENTS EN FONCTION DE LEURS CAPACITES

Patent Applicant/Assignee:

LIGHTSURF TECHNOLOGIES INC, 4th Floor, 110 Cooper Street, Santa Cruz, CA 95060-3901, US, US (Residence), US (Nationality)

Inventor(s):

MIETZ EGLI Paul, 116 Blueberry Drive, Scotts Valley, CA 95066, US,

KIRANI Shekhar, 109 Washburn Avenue, Capitola, CA 95010, US,

EASWAR Venkat, 10736 Linda Vista Drive, Cupertino, CA 95014, US,
Legal Representative:
HICKMAN Paul L (agent), Perkins Cole LLP, 101 Jefferson Drive, Menlo
Park, CA 94025-1114, US,
Patent and Priority Information (Country, Number, Date):
Patent: WO 200340893 A2-A3 20030515 (WO 0340893)
Application: WO 2002US36064 20021107 (PCT/WO US02036064)
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Publication Language: English
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Fulltext Word Count: 16149

Fulltext Availability:
Detailed Description

Detailed Description

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OneSearch, 4 files, 0.742 DialUnits FileOS
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☐ tr Q17YG7 _HELAC Alpha (1,3)-fucosyltransferase 2 [fucT fragment
☐ tr Q7VFA1 _HELHP Alpha-1,3-fucosyltransferase [HH_1776] [Helicoba
☐ tr Q1RJ80 _RICBR Alpha-(1,3)-fucosyltransferase [RBE_0503] [Ricke
☐ tr Q5L9S6 _BACFN Putative LPS biosynthesis related glycosyltransf
☐ tr Q9DGL0 _XENLA C-ret [Ret] [Xenopus laevis (African clawed frog
☐ tr Q59N72 _CANAL Hypothetical protein [CaO19.1116] [Candida albic

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Entry information

Entry name	O25142_HELPY
Primary accession number	O25142
Secondary accession numbers	None
Integrated into TrEMBL on	January 1, 1998
Sequence was last modified on	January 1, 1998 (Sequence version 1)
Annotations were last modified on	July 11, 2006 (Entry version 26)

Name and origin of the protein


Protein name	Fucosyltransferase		
Synonyms	None		
Gene name	OrderedLocusNames: HP_0379		
From	Helicobacter pylori (Campylobacter pylori)	[TaxID: 210]	[HAMAP proteome]
Taxonomy	Bacteria; Proteobacteria; Epsilonproteobacteria; Campylobacterales; Helicobacteraceae; Helicobacter.		

References

[1] NUCLEOTIDE SEQUENCE [LARGE SCALE GENOMIC DNA].

STRAIN=ATCC 700392 / 26695;

DOI=10.1038/41483; PubMed=9252185 [NCBI, ExPASy, EBI, Israel, Japan]

Tomb J.-F., White O., Kerlavage A.R., Clayton R.A., Sutton G.G., Fleischmann R.D., Ketchum K.A., Klenk H.-P., Gill S.R., Dougherty B.A., Nelson K.E., Quackenbush J., Zhou L., Kirkness E.F., Peterson S.N., Loftus B.J., Richardson D.L., Dodson R.J., Khalak H.G., , Venter L.
"The complete genome sequence of the gastric pathogen Helicobacter pylori."
Nature 388:539-547(1997).

Comments

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UniProtKB/TrEMBL entry O25366

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Entry information

Entry name	O25366_HELPY
Primary accession number	O25366
Secondary accession numbers	None
Integrated into TrEMBL on	January 1, 1998
Sequence was last modified on	January 1, 1998 (Sequence version 1)
Annotations were last modified on	July 11, 2006 (Entry version 27)

Name and origin of the protein


Protein name	Fucosyltransferase		
Synonyms	None		
Gene name	OrderedLocusNames: HP_0651		
From	Helicobacter pylori (Campylobacter pylori)	[TaxID: 210]	[HAMAP proteome]
Taxonomy	Bacteria; Proteobacteria; Epsilonproteobacteria; Campylobacteriales; Helicobacteraceae; Helicobacter.		

References

[1] NUCLEOTIDE SEQUENCE [LARGE SCALE GENOMIC DNA].

STRAIN=ATCC 700392 / 26695;

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Tomb J.-F., White O., Kerlavage A.R., Clayton R.A., Sutton G.G., Fleischmann R.D., Ketchum K.A., Klenk H.-P., Gill S.R., Dougherty B.A., Nelson K.E., Quackenbush J., Zhou L., Kirkness E.F., Peterson S.N., Loftus B.J., Richardson D.L., Dodson R.J., Khalak H.G., , Venter L.
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Nature 388:539-547(1997).

Comments

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